
02770 - SEWER FLOW CONTROL

(Revised 11/16/06)

SELECTED LINKS TO SECTIONS WITHIN THIS SPECIFICATION

PART 1 – GENERAL**PART 2 – PRODUCTS** (NOT USED)**PART 3 – EXECUTION****DEPTH OF FLOW****PLUGGING OR BLOCKING****PUMPING AND BYPASSING****PLUGGED OR BY-PASSED SEWER LINES****PART 1 – GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the contract, including General Requirements and Supplementary Conditions applicable to this specification.
- B. Section 01000 – GENERAL REQUIREMENTS
- C. Section 02750 – SEWER LINE CLEANING
- D. Section 02760 – TELEVISION INSPECTION OF SEWER LINES
- E. Section 02780 – LINER FOR SEWER REHABILITATION

1.2 SUMMARY

This section includes all the equipment, labor, and materials necessary to perform all work for sewer flow control for lining, televising, or replacing existing sewers.

1.3 SUBMITTALS

Submit written description of flow control and all equipment to be used.

1.4 QUALITY ASSURANCE

- A. Comply with all codes, laws, ordinances, and regulations of governmental authorities having jurisdiction over this part of the work.
- B. The Contractor shall comply with the latest revision of the Virginia Occupational Safety and Health Standards for the Construction Industry as adopted by the Safety and Health Codes Commission of Virginia.
- C. The Contractor shall comply with Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, "Virginia Erosion and Sedimentation Control Handbook," latest revision.

D. DEPTH OF FLOW

Shall not exceed that shown below for the respective pipe sizes as measured in the manhole when performing television inspection.

- 1) 6-INCH - 10-INCH PIPE.....20% OF PIPE DIAMETER
- 2) 12-INCH - 24-INCH PIPE.....25% OF PIPE DIAMETER

E. FLOW CONTROL PRECAUTIONS

When flow in a sewer line is plugged, blocked, or bypassed, sufficient precautions shall be taken to protect the sewer lines from damage that might result from sewer surcharging.

1.3.1 COORDINATION

- A. The contractor shall completely remove and dispose of all dirt, debris, rubbish and surplus, and unsuitable materials at the end of each work day at no additional cost to the owner.
- B. Whenever the contractor desires to use a hydrant for water supply, the contractor shall obtain the permission of the owner. All costs associated with the use of water supplied from hydrants shall not be paid for separately but shall be deemed to be included in the bid. Operation of hydrant shall be in accordance with the City Of Lynchburg Backflow Prevention Program. Use of an RPZ device or air gap is required.

PART 2 – PRODUCTS (NOT USED)**PART 3 – EXECUTION****3.1 PLUGGING OR BLOCKING**

A sewer line plug shall be inserted into the line upstream of the section being worked. The plug shall be so designed that all or any portion of the sewage can be released. During TV inspection, flow shall be reduced to within the limits specified herein. After the work has been completed, flow shall be restored to normal.

3.2 PUMPING AND BYPASSING

Provide the pumps, conduits, and other equipment to divert the flow of sewage around the section in which work is to be performed. The bypass system shall be of sufficient capacity to handle 1.25 times the maximum gravity flow of the pipeline section being bypassed. The contractor shall provide all necessary labor and equipment to setup and operate the equipment in a manner to prevent all spills, overflows, and releases. This shall include manning the equipment continuously or providing auto-dialer equipped machinery for fail safe operation.

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All pumps shall be equipped with sound attenuation measures which reduce noise levels to maximum of 75 decibels at a distance of 30 feet from the equipment during all periods of operation.

3.3 PLUGGED OR BY-PASSED SEWER LINES

Plugged or by-passed sewer lines shall not be allowed to overflow or discharge onto the ground or into streams except during rainfall events that would normally activate a permitted combined sewer overflow.

- 3.4** All bypass pumping operations shall also meet the requirements in Section 02730-*Sanitary Sewer*.

END OF SECTION 02770

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